

# ORTHOSTONE

HIGH-STRENGTH, VIVID-WHITE TYPE III ORTHODONTIC STONE

## APPLICATION

OrthoStone is a **high-strength** type III dental gypsum formulated with a vivid-white color for ideal esthetics in orthodontic casts and working models. OrthoStone is easy to mix and spatulates quickly into a creamy, free flowing consistency due to its fine particle size and optimized water / powder ratio. Multiple pours can now be achieved due to an extended yet consistent working time. Hard-to-reach areas are filled quickly and effortlessly under gentle vibration. The stone sets rapidly allowing for quick removal while maintaining a high compressive strength, good abrasive- and chip-resistance, as well as high accuracy. OrthoStone produces a smooth and dense surface ensuring detailed reproductions with fewer nodules and voids. Available in vivid-white.

## PHYSICAL PROPERTIES

<b>WATER   POWDER RATIO:</b>	26 - 27 ml / 100 g
<b>SETTING TIME:</b>	15 -17 min
<b>SETTING EXPANSION:</b>	0.14 %
<b>DRY COMPRESSIVE STRENGTH:</b>	9,500 psi

NOTE: DATA OBTAINED AT A WATER AND POWDER TEMPERATURE OF 22°C (72°F).

## PREPARATION

1. Ensure measuring and mixing equipment are clean and calibrated for use.
2. When mixing gypsum stones and plasters, always use distilled water.

## MIXING DIRECTIONS

1. Ensure both water and powder temperatures are 21-24°C (70-75°F).
2. Add water to empty mixing bowl.
3. Add powder to mixing bowl.
4. Hand spatulate for roughly 20 seconds to incorporate powder into liquid.
5. Mix under vacuum at roughly 400 rpm for 15 to 30 seconds.
6. Hold under vacuum for another 30 seconds.
7. Pour mixture under gentle vibration.

## WORKING TIME ADJUSTMENT

<b>INCREASE WORKING TIME</b>	Decrease temperature of powder or water in increments of 2°F.
<b>DECREASE WORKING TIME</b>	Increase temperature of powder or water in increments of 2°F.

## STORAGE

Store in a cool / dry place. High humidity will adversely affect gypsum.

## CAUTION!

Dry powder! Personal Protective Equipment (PPE) is recommended.

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